INTERNATIONAL SEARCH REPORT

International application No. PCT/US05/31248

A. CLASSIFICATION OF SUBJECT MATTER IPC(8) - F42B 391/4 (2007.01) USPC - 250/506.1, 515.1; 88/50 According to International Patent Classification (IPC) or to both national classification and IPC							
B. FIELDS SEARCHED							
Minimum documentation searched (classification system followed by classification symbols) IPC(II) P428 93(4 (2007.01) USPC - 250/506.1, 516.1, 505.1; 68/50; 73/35.17; 220/580.01; 588/16; 102/303							
Documentati	umentation searched other than minimum documentation to the extent that such documents are included in the fields searched						
Electronic da	Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)						
USPTO WEST System (US, USPG-PUB, EPO, DERWENT), MicroPatent, IP.com, DislogPro							
C. DOCU	DOCUMENTS CONSIDERED TO BE RELEVANT						
Category*	Citation of document, with indication, where appropriate, of the relevant passa	ges	Relevant to claim No.				
Y	US 3,820,435 A (ROGERS et al) 28 June 1974 (28.08.1974) entire document		1-42 ·				
Υ	US 5,883,394 A (MUSSMAN) 16 March 1999 (16,03.1999) entire document		1-42				
A	US 3,820,479 A (FYLLING) 28 June 1974 (28.08.1974) enlire document		1-42				
A	WO 2005/015119 A1 (BOSIK et al) 17 February 2005 (17.02.2005) entire document		1-42				
A	US 2003/0209133 A1 (GREENFIELD et al) 13 November 2003 (13.11.2003) entire doi	cument	1-42				
A	US 4,187,758 A (PETTY) 12 February 1980 (12.02.1980) entire document		1-42				
A	US 4,027,601 A (HICKERSON) 07 June 1977 (07.06.1977) entire document		1-42				
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Further documents are listed in the continuation of Box C. Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance.						
		"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention				
	"E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is			"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone		
	"O"	special docume	establish the publication date of another citation or other reason (as specified) ant referring to an oral disclosure, use, exhibition or other	"Y"	considered to involve an inventive step when the document is combined with one or more other such documents, such combination	
	p"	docume the prior	nn published prior to the international filling date but later than nty date claimed	"&"	being obvious to a person skilled in the art document member of the same patent family	
Date of the actual completion of the international search 11 January 2007 Name and mailting address of the ISA/US		Date of mailing of the international search report				
			22 FEB 2007			
		-	Authorized officer:			
Mall Stop PCT, Attn: ISA/US, Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201		Blaine R. Copenheaver PCT Helpdask: 571-272-4300 PCT OSP: 571-272-7774				

Form PCT/ISA/210 (second sheet) (April 2005)